



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Coker's Pedigreed Seed Company

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS OF THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'Coker 762'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 10th day of December in the year of our Lord one thousand nine hundred and eighty-one.

Attest:



Dynamis L. Lee
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block
Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED
OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY Coker 76-22		1b. VARIETY NAME Coker 762		FOR OFFICIAL USE ONLY PV NUMBER 8000152	
2. KIND NAME Wheat		3. GENUS AND SPECIES NAME Triticum Aestivum		FILING DATE 8/20/80	TIME 11:00 A.M. P.M.
4. FAMILY NAME (BOTANICAL) Gramineae		5. DATE OF DETERMINATION 1977		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 8/20/80 10/5/81
6. NAME OF APPLICANT(S) Coker's Pedigreed Seed Co.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box 340, Hartsville, S.C. 29550		8. TELEPHONE AREA CODE AND NUMBER (803) 332-7531	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION South Carolina		11. DATE OF INCORPORATION July 12, 1918
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: Howard F. Harrison Coker's Pedigreed Seed Company, P. O. Box 340 Hartsville, South Carolina 29550					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☒ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.)		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?	14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED?		
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED		
15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If "Yes," give name of countries and dates.)			
15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If "Yes," give name of countries and dates.)			

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

8-7-80
(DATE)

Howard F. Harrison
(SIGNATURE OF APPLICANT)

(DATE)
FORM GR-470 (1-78)

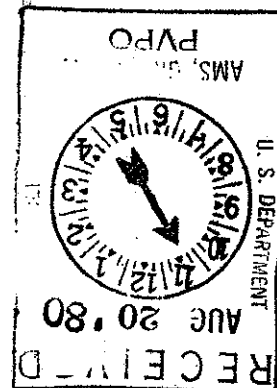
(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- 14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.



COKER 762

EXHIBIT A

ORIGIN AND BREEDING HISTORY OF THE VARIETY

- 1970 Last cross made
Coker 68-19/3/Coker 61-19*3/Purdue Dwarf³/2/Bb¹
/4/Coker 65-20 *5/wi²*7/Transfer
- 1970 Growth Chamber F₁ plants
- 1970-71 F₂ spaced plants
- 1971-72 F₃ Headrows
- 1972-73 F₄ Headrows
- 1973-74 Single F₅ Headrow selected
- 1974-75 Preliminary yield test
- 1975-76 Increase Block 76-22
- 1976-77 Entered in Uniform Southern Soft Red Winter Wheat Nursery

Subsequent cycles of headrows have indicated that this variety is genetically stable for the characteristics observed.

A copy of the report of the 1977 Uniform Southern Soft Wheat Nursery is being submitted.

After observation in the field, 'Coker 762' has been shown to be genetically uniform.

There are no discernible variants.

1/ 'Blueboy' 2/ 'Wichita'

3/ Purdue 4949 A4-12-2-10-1
9/4/81

EXHIBIT B

NOVELTY STATEMENT

'Coker 762' most closely resembles Coker 747 but differs in the following characteristics.

	<u>Seedling Leaf Rust</u>	<u>Test Weight^{1/}</u>
Coker 762	HR	55.64
Coker 747	S	59.08

^{1/} Significant at 1%.

" 'Coker 762' has an obtuse beak and a purple coleoptile;
Whereas 'Coker 747' has an acute beak and a white coleoptile, "

20 9/4/81

Table 15. Wheat, milling, and flour analytical and baking data, and quality scores, Uniform Southern Soft Red Winter Wheat Nursery entries, 1980 crop.

LAB NO.	ENTRY	MILLING QUALITY SCORE	BAKING QUALITY SCORE	COMBINED QUALITY SCORE	MOIS. PCT.	TEST WT. KG/HL	PROT. PCT.	ASH PCT.	WHEAT			RED. PASS PCT.	BREAK FLOUR YIELD PCT.	FLOUR YIELD PCT.	MILLAB. SCORE
									PART. SIZE INDEX PCT.	ENDOSP. SEPN. INDEX PCT.	REDF. PASS PCT.				
UNIFORM SOUTHERN SOFT RED WINTER WHEAT NURSERY STANDARD = 80364 (ARTHUR 71)															
80364	STANDARD	100.0 A	100.0 A	100.0 A	10.4	80.2	11.6	1.65	41.2	11.1	12	29.5	76.1	105.2	
80365	1 HOLLEY	94.9 C	97.3 B	94.9 C	10.4	80.6	10.7	1.67	39.5*	13.7Q	14	31.0	75.8	96.1	
80366	2 COVER 76-22	96.9 B	98.9 B	96.9 B	10.4	76.1Q	10.8	1.61	45.7	11.7*	13	34.8	76.0	99.4	
80367	3 ROY	97.6 B	98.7 B	97.6 B	10.1	74.5Q	10.6	1.65	42.7	10.3	11	34.1	76.2	101.4	
80368	4 OREGA 78	92.8 C	98.8 B	92.8 C	10.4	78.5Q	11.5	1.64	40.2	12.4Q	12	29.8	75.7	96.3	
80369	5 TYLER	102.9 A	101.0 A	101.0 A	10.3	77.3Q	10.7	1.48	37.0Q	10.7	11	31.3	76.4	110.1	
80370	6 STACY	96.0 B	87.8 D	87.8 D	10.3	79.1Q	11.2	1.57	35.0Q	11.9*	11	28.5	75.3	101.6	
80371	7 VA 76-52-12	100.2 A	100.1 A	100.1 A	10.3	78.7Q	10.9	1.62	41.8	10.9	11	31.6	76.6	104.6	
80372	8 PRUEFER	111.0 A	108.1 A	108.1 A	10.4	79.1Q	11.2	1.64	40.7	10.4	12	29.1	77.2	119.8	
80373	9 AR 150-31	104.9 A	92.4 C	92.4 C	10.3	79.6Q	11.9	1.63	36.9Q	7.3	10	28.2	78.7	113.3	
80374	10 MD 55-114-03	114.1 A	109.9 A	109.9 A	10.4	78.9Q	11.1	1.65	41.2	11.1	12	29.5	76.1	105.2	
80375	11 ARTHUR 71	100.0 A	100.0 A	100.0 A	10.4	80.2	11.6	1.62	39.6*	15.5Q	12	32.6	72.5Q	62.1	
80376	12 MCNAIR 3270	69.4 F	92.9 C	69.4 F	10.3	76.2Q	10.4	1.56	38.5Q	14.2Q	16	33.0	75.1*	89.3	
80377	13 MCNAIR 3271	88.8 D	90.9 C	88.8 D	10.4	77.5Q	10.3	1.62	38.0Q	11.2	11	29.0	76.1	104.7	
80378	14 FLORIDA 301	99.3 B	94.2 C	94.2 C	10.3	79.4Q	11.1	1.54	40.1	11.9*	11	32.6	74.8*	101.6	
80379	15 PIONEER XA890	98.6 B	98.7 B	98.6 B	10.5	80.0	10.7	1.59	43.5	9.9	12	34.5	76.8	114.4	
80380	16 MD 55-3A-45	107.1 A	102.0 A	102.0 A	10.3	75.3Q	10.7	1.59	43.5	9.9	12	34.5	76.8	114.4	
80381	17 MD 55-3A-37	104.0 A	109.0 A	104.0 A	10.4	76.0Q	10.8	1.60	43.3	9.5	11	33.7	76.6	110.7	
80382	18 FL 7271A103	107.9 A	100.7 A	100.7 A	10.5	78.7Q	10.8	1.60	43.3	9.5	11	33.4	78.1	114.5	
80383	19 FL 72185A101-5	97.2 B	97.1 B	97.1 B	10.5	78.2Q	11.1	1.55	42.5	11.6	11	32.0	75.1*	100.8	
80384	20 TX-0-74-39	87.4 D	90.6 C	87.4 D	10.5	79.3Q	11.0	1.65	35.3Q	13.5Q	12	30.0	74.3Q	88.9	
80385	21 H-73-3-3-2	90.3 C	91.4 C	90.3 C	10.2	79.1Q	12.2	1.64	35.7Q	12.7Q	11	28.5	74.8*	95.5	
80386	22 AR 38-1-3-5-5	101.6 A	104.3 A	101.6 A	10.6	78.3Q	10.7	1.66	41.3	10.1	10	31.3	76.5	106.4	
80387	23 AR 155-5	104.7 A	102.8 A	102.8 A	10.5	81.1	11.2	1.56	41.7	10.2	11	31.6	76.3	110.0	
80377	24 NAB 1273-2	108.3 A	108.2 A	108.2 A	10.3	80.0	11.1	1.73	41.2	11.0	14	32.1	78.3	115.8	
80379	25 NAB 1283-7	101.7 A	102.4 A	101.7 A	10.4	78.4Q	10.9	1.65	42.7	12.3Q	12	35.4	76.9	106.4	
80380	26 COVER 79-20	79.4 F	84.6 E	79.4 F	10.3	79.8	12.1	1.70	41.2	14.7Q	12	30.7	73.1Q	77.5	
80381	27 COVER 79-21	92.3 C	93.0 B	92.3 C	10.5	79.4Q	11.1	1.78	43.0	12.3Q	12	33.5	75.3	93.1	
80382	28 COVER 79-14	102.7 A	100.5 A	100.5 A	10.7	81.4	11.2	1.56	39.9	10.2	10	30.5	76.7	107.6	
80383	29 COVER 79-16	99.3 B	91.5 C	91.5 C	10.5	78.5Q	10.4	1.56	37.4Q	11.3	11	28.4	75.9	103.8	
80383	30 COVER 797	98.7 B	101.9 A	98.7 B	10.5	80.0	10.5	1.59	41.1	10.9	12	30.8	76.0	100.8	

OBJECTIVE DESCRIPTION OF VARIETY
WHEAT (TRITICUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Coker's Pedigreed Seed Company

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

P. O. Box 340

Hartsville, South Carolina 29550

FOR OFFICIAL USE ONLY

PVPO NUMBER

8000152

VARIETY NAME OR TEMPORARY
DESIGNATION

COKER 762

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (e.g., or) when number is either 99 or less or 9 or less.

1. KIND:

 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

2. TYPE:

 1 = SPRING 2 = WINTER 3 = OTHER (Specify) _____ 1 = SOFT 3 = OTHER (Specify) _____
2 = HARD 1 = WHITE 2 = RED 3 = OTHER (Specify) _____

3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:

 FIRST FLOWERING LAST FLOWERING

4. MATURITY (50% Flowering):

 NO. OF DAYS EARLIER THAN 1 = ARTHUR 2 = SCOUT 3 = CHRIS 7 = Oasis NO. OF DAYS LATER THAN 4 = LEMHI 5 = NUGAINES 6 = LEEDS

5. PLANT HEIGHT (From soil level to top of head):

 CM. HIGH CM. TALLER THAN 1 = ARTHUR 2 = SCOUT 3 = CHRIS 7 = Oasis CM. SHORTER THAN 4 = LEMHI 5 = NUGAINES 6 = LEEDS

6. PLANT COLOR AT BOOTING (See reverse): RHS 146A

 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN

7. ANTHUR COLOR:

 1 = YELLOW 2 = PURPLE

8. STEM:

 Anthocyanin: 1 = ABSENT 2 = PRESENT Waxy bloom: 1 = ABSENT 2 = PRESENT Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT Internodes: 1 = HOLLOW 2 = SOLID NO. OF NODES (Originating from node above ground) CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:

☒ Anthocyanin: 1 = ABSENT 2 = PRESENT Hairiness: 1 = ABSENT 2 = PRESENT

10. LEAF:

 Flag leaf at booting stage: 1 = ERECT 2 = RECURVED
3 = OTHER (Specify): _____☒ Flag leaf: 1 = NOT TWISTED 2 = TWISTED Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT MM. LEAF WIDTH (First leaf below flag leaf) CM. LEAF LENGTH (First leaf below flag leaf)

FORM GR-470-6 (REVERSE)

11. HEAD:

<input type="text" value="2"/> Density: 1 = LAX 2 = DENSE	<input type="text" value="2"/> Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE 4 = OTHER (Specify) _____
<input type="text" value="3"/> Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED	
<input type="text" value="1"/> Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED 5 = BROWN 6 = BLACK 7 = OTHER (Specify): _____	
<input type="text" value="0"/> <input type="text" value="8"/> CM. LENGTH	<input type="text" value="1"/> <input type="text" value="5"/> MM. WIDTH

12. GLUMES AT MATURITY:

<input type="text" value="3"/> Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.) 3 = LONG (CA. 9 mm.)	<input type="text" value="3"/> Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.) 3 = WIDE (CA. 4 mm.)
<input type="text" value="1"/> Shoulder shape: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED 4 = SQUARE 5 = ELEVATED 6 = APICULATE	<input type="text" value="1"/> Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

13. COLEOPTILE COLOR:

 1 = WHITE 2 = RED 3 = PURPLE

14. SEEDLING ANTHOCYANIN:

 1 = ABSENT 2 = PRESENT

15. JUVENILE PLANT GROWTH HABIT:

 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

16. SEED:

<input type="text" value="1"/> Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL	<input type="text" value="1"/> Check: 1 = ROUNDED 2 = ANGULAR
<input type="text" value="2"/> Brush: 1 = SHORT 2 = MEDIUM 3 = LONG	<input type="text" value="1"/> Brush: 1 = NOT COLLARED 2 = COLLARED
<input type="text" value=""/> Phenol reaction (See instructions): 1 = IVORY 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK	
<input type="text" value="3"/> Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify) _____	
<input type="text" value="0"/> <input type="text" value="7"/> MM. LENGTH	<input type="text" value="0"/> <input type="text" value="3"/> MM. WIDTH
	<input type="text" value="3"/> <input type="text" value="3"/> GM. PER 100 SEEDS

17. SEED CREASE:

<input type="text" value="1"/> Width: 1 = 60% OR LESS OF KERNEL 'WINOKA' 2 = 80% OR LESS OF KERNEL 'CHRIS' 3 = NEARLY AS WIDE AS KERNEL 'LEMHI'	<input type="text" value="2"/> Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT' 2 = 35% OR LESS OF KERNEL 'CHRIS' 3 = 50% OR LESS OF KERNEL 'LEMHI'
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18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

<input type="text" value="2"/> STEM RUST (Races)	<input type="text" value="2"/> LEAF RUST (Races)	<input type="text" value="1"/> STRIPE RUST (Races)	<input type="text" value="0"/> LOOSE SMUT
<input type="text" value="2"/> POWDERY MILDEW	<input type="text" value="0"/> BUNT	<input type="text" value=""/> OTHER (Specify) _____	

19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

<input type="text" value="0"/> SAWFLY	<input type="text" value="0"/> APHID (Bydv.)	<input type="text" value=""/> GREEN BUG	<input type="text" value=""/> CEREAL LEAF BEETLE
<input type="text" value=""/> OTHER (Specify) _____	HESSIAN FLY	<input type="text" value=""/> GP	<input type="text" value=""/> A
	RACES:	<input type="text" value=""/> D	<input type="text" value=""/> E
		<input type="text" value=""/> F	<input type="text" value=""/> G

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Coker 747	Seed size	Blueboy
Leaf size	"	Seed shape	"
Leaf color	"	Coleoptile elongation	"
Leaf carriage	"	Seedling pigmentation	"

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(a) L.W. Briggie and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.

(b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety.

COKER 762

EXHIBIT D

ADDITIONAL DESCRIPTION OF THE VARIETY

Coker 762 is a full season, semi-dwarf soft red winter wheat variety developed by Coker's Pedigreed Seed Company from a complex cross (Exhibit A).

Juvenile plants are semi-erect to prostrate, with profuse tillering.

Plant height is about 13 cm. shorter than Oasis.

Heads are white, rather compact with approximately 20 nodes per rachis.

Glumes are long, wide and glabrous, shoulder wanting, beak obtuse. Exertion from Flag leaf to first rachis node averages 9.75 cm. with a range from 6.0 cm.

to 14.0 cm. Apical awnlets seldom exceed 45 mm. *Pigmentation of the auricles may be faint to indistinguishable. 9/11/81*

'Coker 762' is resistant to leaf rust in both seedling and adult stages. It is also resistant to the prevalent races of powdery mildew. It is resistant to soil-borne mosaic as found at Hartsville, South Carolina.

Seed is red, ovate, with rounded cheek, medium brush, non-collared.

Phenol reaction shows about 75% brown-black to 25% brown.

Table 15 (contd.). Wheat, milling, and flour analytical and baking data, and quality scores, Uniform Southern Soft Red Winter Wheat Nursery entries, 1980 crop.

LAB NO.	STRAIGHT-GRADE FLOUR					CAKE PATENT FLOUR					INTER-NAL SCORE					
	MOIS. PCT.	ASH PCT.	PROT. PCT.	VISC. AS IS MACH.	VISC. ADJ. MACH.	MICRO AMRC FCT.	COOKIE DIAM. CM.	TOP GRAIN	ASH PCT.	PROT. PCT.		INIT. PH	FINAL PH	CHLORINE RESPONSE PH/ML/G	OPT. LIQUID LEVEL PCT.	CAKE VOLUME ML.
80354	14.3	.41	10.6	109.	91.	51.9	17.6	4.	.30	9.6	5.74	4.81	2.53	130.	1096.	87.
80355	14.3	.41	9.7	87.	94.	52.0	17.4	5.	.30	8.9	5.67	4.79	2.89	130.	1088.	85.
80356	14.2	.42	9.6	66.	75.	52.4	17.3	3.	.28	8.5	5.77	4.81	2.97	120.	1136.	84.
80357	14.3	.43	9.1	63.	85.	50.8	17.4	5.	.368	8.4	5.65	4.82	2.31	120.	1085.	82.
80358	14.4	.42	10.6	126.	107.*	50.4	17.4	3.	.31	9.6	5.72	4.81	2.59	130.	1064.	86.
80359	14.3	.40	9.5	80.	92.	50.0	17.4	5.	.30	8.6	5.81	4.81	2.72	130.	1063.	85.
80360	14.3	.39	10.2	120.	111.*	52.6	17.10	2.	.28	9.1	5.69	4.83	2.84	120.	1072.	82.
80361	14.0	.42	9.6	82.	92.	50.6	17.4	5.	.32	8.8	5.71	4.81	2.66	120.	1115.	83.
80362	14.1	.41	11.0	125.	93.	51.8	17.3*	4.	.33*	9.4	5.77	4.82	2.56	130.	1060.*	88.
80363	14.1	.39	10.4	71.	61.	48.3	17.9	6.	.29	10.1	5.73	4.81	2.58	125.	1073.	84.
80364	14.3	.41	10.6	109.	91.	51.9	17.6	4.	.33*	9.9	5.72	4.81	2.39	130.	1035.*	87.
80365	14.0	.45*	8.9	58.	86.	53.9*	17.4	4.	.30	9.6	5.74	4.81	2.53	130.	1076.	87.
80366	14.0	.42	9.3	51.	64.	53.9*	17.2*	4.	.33Q	8.1	5.79	4.78	2.69	130.	1059.*	85.
80367	14.2	.41	10.4	130.	114.*	50.9	17.3*	4.	.30	8.4	5.70	4.80	2.92	130.	1108.	83.
80368	14.0	.38	9.6	65.	68.	52.1	17.5	4.	.32	9.6	5.74	4.79	2.71	130.	1065.	82.
80369	14.3	.40	9.4	42.	48.	52.2	17.7	4.	.31	8.5	5.75	4.81	2.90	130.	1075.	84.
80370	14.2	.41	9.8	64.	67.	48.0	17.6	5.	.31	8.8	5.71	4.77	2.76	130.	1061.*	85.
80371	14.0	.43	9.8	69.	74.	50.0	17.3*	4.	.32	8.9	5.73	4.78	2.77	130.	1030.*	89.
80372	14.1	.39	10.0	91.	88.	51.4	17.4	4.	.30	9.1	5.70	4.79	2.85	130.	1064.	85.
80373	14.0	.41	9.9	110.	112.*	51.8	17.00	2.	.31	9.1	5.76	4.84	2.77	130.	1081.	83.
80374	14.2	.40	11.3*	114.	78.	52.8	17.2*	2.	.28	10.0	5.66	4.82	2.71	130.	1073.	86.
80375	14.1	.42	9.5	73.	85.	50.5	17.6	2.	.34*	8.8	5.78	4.82	2.57	130.	1076.	85.
80376	14.3	.40	10.3	95.	86.	51.4	17.6	3.	.31	9.6	5.75	4.83	2.71	130.	1086.	87.
80377	14.0	.42	10.2	84.	79.	50.3	17.7	3.	.28	9.4	5.65	4.76	2.91	130.	1088.	87.
80378	13.8	.41	9.4	74.	87.	52.0	17.7	3.	.29	8.6	5.67	4.82	2.86	130.	1089.	85.
80379	14.0	.41	11.1	102.	74.	53.6*	16.90	2.	.30	10.0	5.73	4.84	2.61	125.	1086.	83.
80380	13.9	.42	9.9	64.	65.	51.9	17.4	2.	.30	9.0	5.75	4.82	2.84	120.	1133.	84.
80381	13.9	.42	10.1	97.	93.	50.4	17.5	3.	.31	9.3	5.79	4.82	2.54	120.	1094.	84.
80382	14.2	.41	9.3	86.	105.	52.3	17.3*	4.	.32	8.5	5.70	4.82	2.73	125.	1079.	81.
80383	13.9	.42	9.6	86.	98.	50.8	17.5	4.	.34*	8.9	5.77	4.85	2.58	130.	1092.	85.

Table 16. Ranking of Uniform Southern Soft Red Winter Wheat Nursery entries according to combined quality score, 1980 crop, and rankings for 1974-1976 crops.

Lab. No.	Entry	Combined Quality Score Rank				
		1980	1979	1978	1977	1976
80363	Md 55-114-03	1	1			
377	1273-2 (NAPB)	2				
361	Wheeler	3	7			
370	Md 55-286-37	4				
376	Ar 155-5	5				
369	Md 55-36-45	6				
378	1283-7 (NAPB)	7				
375	Ar 38-1-3-5-5	8				
358	Tyler	9	9-	5		
371	F1 7271A103	10				
381	Coker 79-14	11				
360	Va 76-52-12	12	16			
364	Arthur 71	13	19		1	13
383	Coker 797	14				
368	Pioneer X6890	15				
356	Roy	16	20	21	13	
372	F1 72185A101-5	17				
355	Coker 76-22	18	17-	11-	19	
354	Holley	19	17-	17	17	12
367	Florida 301	20	12			
357	Omega 78	21	14	20		
362	Ar 150-31	22	9-			
380	Coker 79-21	23				
382	Coker 79-16	24				
374	H73-3-3-3-2	25				
366	McNair 3271	26	26			
359	Stacy	27	23			
373	TX 0-74-39	28				
379	Coker 79-20	29				
365	McNair 3270	30	30			

Note: - = 1/2

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35.
County of New York

TRANSFER OF OWNERSHIP

In consideration of the formation of a research partnership, which is named CR Seeds with its principal offices at 900 Darlington Highway, Hartsville, S.C. 29550, and of which Coker's Pedigreed Seed Company, Hartsville, S.C., is a partner, Coker's Pedigreed Seed Company does hereby convey to CR Seeds, free from all encumbrances, ownership of the following protected varieties:

Wheat Varieties

<u>Variety Name</u>	<u>Plant Variety Certificate No.</u>	<u>Issue Date</u>
Coker 68-15	7200014	March 6, 1974
Coker 68-19	7200015	March 6, 1974
Coker 747	76TQ015	September 9, 1978
Coker 762	8000152	December 12, 1981
Coker 797	8000145	December 12, 1981

Oat Varieties

<u>Variety Name</u>	<u>Plant Variety Certificate No.</u>	<u>Issue Date</u>
Coker 227	7500007	October 20, 1977
Coker 716	7900003	December 28, 1978
Coker 234	7500008	October 26, 1977
Four Twenty-Two	7700085	April 12, 1979
Big Mac	8200121	August 19, 1982
Mesquite	8200122	August 19, 1982

Soybean Varieties

<u>Variety Name</u>	<u>Plant Variety Certificate No.</u>	<u>Issue Date</u>
Coker-Hampton 266A	7100022	September 6, 1973
Coker 136	7300091	October 18, 1973
Coker 338	7400058	October 29, 1976
Coker 237	7800034	July 13, 1978
Coker 488	7900035	July 13, 1978
Coker 156	7900043	November 27, 1979
Coker 317	8100095	November 19, 1981
Coker 368	8200140	August 31, 1983

COKER'S PEDIGREED SEED CO.

By: E. Joe Dahmer
E. Joe Dahmer, President

Date: February 29, 1984

Sworn and subscribed to before me
this 29th day of February, 1984.

Ruth Silber
Notary Public ~~for South Carolina~~

RUTH SILBER
NOTARY PUBLIC, State of New York
No. 31-8994050
Qualified in New York County
Commission Expires March 30, 1984

State of New York
County of New York

TRANSFER OF APPLICATIONS FOR

PLANT VARIETY PROTECTION

In consideration of the formation of a research partnership, which is named CR Seeds with its principal offices at 900 Darlington Highway, Hartsville, S.C. 29550, and of which Coker's Pedigreed Seed Company is a partner, Coker's Pedigreed Seed Company does hereby convey to CR Seeds, free from all encumbrances, ownership of the following applications for Plant Variety Protection:

Wheat Varieties

<u>Variety Name</u>	<u>Application No.</u>	<u>Date of Filing</u>
Coker 916	830036	January 11, 1983
Coker 983	Application Mailed to PVP Office on	February 17, 1984

Oat Varieties

<u>Variety Name</u>	<u>Application No.</u>	<u>Date of Filing</u>
Coker 820	Application Mailed to PVP Office on	February 24, 1984

Soybean Varieties

<u>Variety Name</u>	<u>Application No.</u>	<u>Date of Filing</u>
Coker 393	8400018	November 18, 1983
Coker 355	8400019	November 18, 1983

COKER'S PEDIGREED SEED CO.

By: E. Joe Dahmer
E. Joe Dahmer, President
Date: Feb. 29, 1984

Sworn and subscribed to before me
this 29th day of February, 1984.

Ruth Silber
Notary Public ~~for South Carolina~~

~~(My commission expires March 20, 1990.)~~

RUTH SILBER
NOTARY PUBLIC, State of N.Y.
No. 31-8994050
Qualified in New York County
Commission Expires March 30, 1984

ASSIGNMENT

WHEREAS, CR Seeds, a general partnership having its principal office at 900 Darlington Highway, Hartsville, South Carolina 29550 ("Partnership"), is the owner of the entire right, title and interest to the United States Plant Variety Protection Certificates and applications for such Certificates (collectively "Certificates") listed on Appendix A attached hereto;

WHEREAS, the partners of CR Seeds, Rohm and Haas Seeds Inc., a Delaware corporation having its principal office at Independence Mall West, Philadelphia, PA 19105 ("RHS") and Coker's Pedigreed Seed Company, a South Carolina corporation with its principal office at 900 Darlington Highway, Hartsville, SC 29550 ("CPS"), are each desirous of acquiring a one-half undivided interest in the varieties and Certificates listed on Appendix A;

NOW, THEREFOR, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, CR Seeds does hereby sell, assign and transfer to RHS a one-half undivided interest in and to the varieties and Certificates and to CPS a one-half undivided interest in and to the varieties and Certificates for each of their use and benefit and for each of their successors and assigns.

IN TESTIMONY THEREOF, CR Seeds intending to be legally bound has caused this assignment to be executed by its duly authorized officer.

CR Seeds

By: E. Joe Dahmer
President

State of South Carolina)
County of Darlington) SS

On this 30th day of December, 1986, before me appeared E. Joe Dahmer of CR Seeds, the person who signed this instrument who acknowledged that he signed it as a free act on behalf of CR Seeds with authority to do so.

Logan B. Ellett
Notary Public

My commission expires 4-14-91

APPENDIX A

Soft Red Winter Wheat Varieties

<u>Variety Name</u>	<u>U.S. Plant Variety Certificate No.</u>	<u>Issue Date</u>
Coker 68-15	7200014	Mar. 6, 1974
Coker 68-19	7200015	Mar. 6, 1974
Coker 747	76TQ015	Sept. 9, 1978
Coker 762	8000152	Dec. 12, 1981
Coker 797	8000145	Dec. 12, 1981
Coker 916	8300036	Sept. 27, 1985
Coker 983	8400058 ¹	Feb. 27, 1984 ¹
McNair 701	7200038	Feb. 26, 1974
McNair 4823	7200037	April 8, 1975
RHS 8232	8400136 ¹	July 16, 1984 ¹
9227	8600009 ¹	Oct. 22, 1985 ¹
9323	8600010 ¹	Oct. 22, 1985 ¹

1. Application number and filing date.

Winter Oat Varieties

<u>Variety Name</u>	<u>U.S. Plant Variety Certificate No.</u>	<u>Issue Date</u>
Coker 227	7500007	Oct. 20, 1977
Coker 716	7900003	Dec. 28, 1978
Coker 820	8400059 ¹	Feb. 28, 1984 ¹
Coker 234	7500008	Oct. 26, 1977
Four Twenty Two	7700085	Apr. 12, 1979
Big Mac	8200121	Aug. 19, 1982
Mesquite	8200122	Aug. 19, 1982

1. Application number and filing date.

Soybean Varieties

Coker Hampton 266A	7100022	Sept. 6, 1973
Coker 136	7300091	Oct. 18, 1973
Coker 338	7400058	Oct. 29, 1976
Coker 237	7800034	July 13, 1978
Coker 488	7800035	July 13, 1978
Coker 156	7900043	Nov. 27, 1979
Coker 317	8100095	Nov. 19, 1981
Coker 368	8200140	Aug. 31, 1983
Coker 425	8400077	May 31, 1985
Coker 485	8400078	May 31, 1985
Coker 393 (Q327-4270)	8400018	Jan. 25, 1985
Coker 355 (XP5878)	8400019	Jan. 25, 1985
Coker 627	8700001 ¹	Oct. 3, 1986 ¹
Coker 686	Pending ¹	Dec. 19, 1986

1. Application number and filing date.

<u>Variety Name</u>	<u>U.S. Plant Variety Certificate No.</u>	<u>Issue Date</u>
AP55	8100089	Feb. 18, 1982
AP70	7800081	Feb. 15, 1979
AP71	8100090	Sept. 24, 1981
Lancer	7600044	Sept. 29, 1976
RA-526	7500067	Dec. 12, 1975
RA-604	7900008	Mar. 1, 1975
RA-680	8100097	Apr. 15, 1982
RA-502	8200160	Aug. 31, 1983
RA-606	8200161	Oct. 27, 1983
RA-580	8300075	Apr. 30, 1984
Mitchell	7300054	Oct. 30, 1974
RA-401	7800030	June 22, 1978
RA-601	7800031	June 22, 1978
Mitchell 450	7900046	June 14, 1979
RA-481	8000054	Mar. 26, 1981
RA-402	8000093	July 31, 1981
Mitchell 410	8200162	Oct. 27, 1983
RA-403	8200163	Oct. 27, 1983

<u>Variety Name</u>	<u>Certificate No.</u>	<u>Issue Date</u>
RA-451	8500008 ¹	Oct. 10, 1984 ¹
RA-452	8500009 ¹	Oct. 10, 1984 ¹
RA-405	8500010 ¹	Oct. 10, 1984 ¹
RA-501 A	76TQ006	May 11, 1978
RA-480	7900007	Feb. 15, 1979

1. Application number and filing date.

ASSIGNMENT

WHEREAS, Rohm and Haas Seeds Inc., a Delaware corporation having its principal office at Independence Mall West, Philadelphia, PA 19105 ("RHS"), is the owner of a one-half undivided interest in and to the United States Plant Variety Protection Certificates and applications for such Certificates (collectively "Certificates") listed on Appendix A attached hereto:

WHEREAS, Coker's Pedigreed Seed Company, a South Carolina corporation with its principal office at 900 Darlington Highway, Hartsville, SC 29550 ("CPS"), is desirous of acquiring this one-half undivided interest in the aforementioned varieties and Certificates;

NOW, THEREFOR, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, RHS does hereby sell, assign and transfer to CPS RHS's one-half undivided interest in and to the varieties and Certificates for CPS's use and benefit and for its successors and assigns.

IN TESTIMONY THEREOF, RHS intending to be legally bound has caused this assignment to be executed by its duly authorized officer.

ROHM AND HAAS SEEDS INC.

By: Howard A. Mergelkamp
Assistant Treasurer

State of Pennsylvania)
County of Philadelphia) SS

On this 31st day of December, 1986, before me appeared Howard A. Mergelkamp of Rohm and Haas Seeds Inc., the person who signed this instrument who acknowledged that he signed it as a free act on behalf of Rohm and Haas Seeds Inc. with authority to do so.

Elizabeth A. Smith

ELIZABETH A. SMITH, Notary Public

Notary Public, Phila., Phila. Co

My Commission Expires Oct. 14, 1989

My commission expires _____.

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES

WHEREAS, COKER'S PEDIGREED SEED COMPANY, a South Carolina corporation ("Coker's"), having its offices at 900 Darlington Highway, Hartsville, South Carolina 29550, has adopted and used and is the sole and exclusive owner of certain United States Plant Variety Protection Certificates and similar rights under laws of countries other than the United States as listed in Exhibit A hereto:


WHEREAS, COKER'S PEDIGREED SEED CO. and NORTHRUP KING CO., a Delaware corporation ("NK"), have entered into an Asset Purchase Agreement, dated July 20, 1988, providing for the purchase and sale of substantially all of the assets and business of Coker's and the assumption of certain of Coker's liabilities and obligations by NK; and

WHEREAS, NK desires to acquire the right, title and interest in, to and under the Plant Variety Protection Certificates listed on Exhibit A hereto and the pending applications hereto (collectively, the "Plant Variety Protection Certificates").

IN WITNESS WHEREOF, Coker's has caused this instrument to be executed by its duly authorized representative as of the 20th day of July, 1988.

By: E. Joe Dahmer
E. Joe Dahmer
President

On this 26th day of July, 1988, before me, a Notary Public in and for the County aforesaid, the undersigned officer, E. Joe Dahmer, personally appeared and acknowledged himself to be the President of Coker's Pedigreed Seed Co., and that he executed the foregoing instrument for the purposes therein.

 **TIMOTHY M. BANGASSER**
NOTARY PUBLIC — MINNESOTA
HENNEPIN COUNTY
My Commission Expires May 22, 1992

Timothy M. Bagnasser
Notary Public

Cotton Varieties, Continued

<u>Variety Name</u>	<u>U.S. Plant Variety Certificate Number</u>	<u>Issue Date</u>	<u>Term (Yrs.)</u>
Coker 3131	8100019	Sept. 24, 1981	18
Coker 208	8300082	Sept. 29, 1983	18
Coker 139	8700070	Dec. 18, 1987	18

Soft Red Winter Wheat Varieties

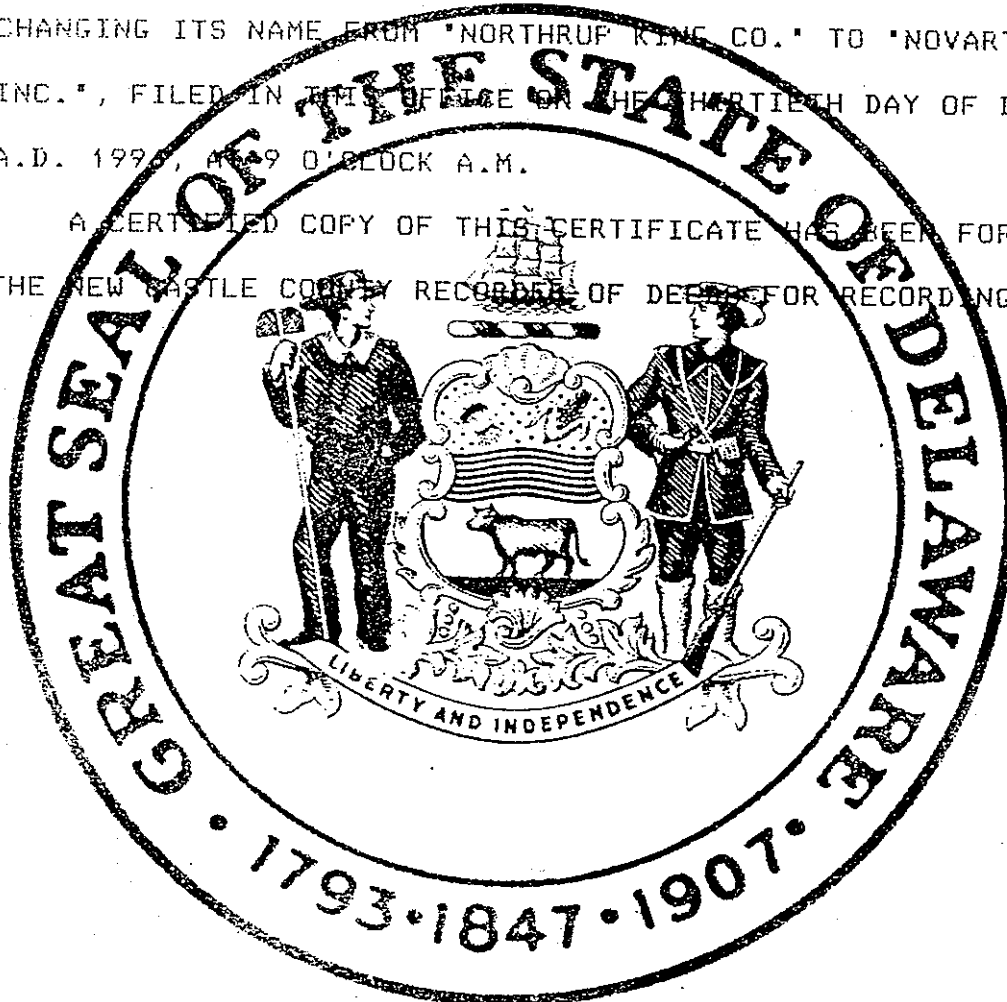
Coker 68-15	7200014	Mar. 6, 1974	17
Coker 68-19	7200015	Mar. 6, 1975	17
Coker 747	76TQ015	Sept. 20, 1978	17
Coker 762	8000152	Dec. 10, 1981	18
Coker 797	8000145	Dec. 10, 1981	18
Coker 916	8300036	Sept. 27, 1985	18
Coker 983	8400058	Dec. 31, 1980	18
McNair 701	7200038	Feb. 26, 1974	17
McNair 4823	7200037	Apr. 8, 1975	17
RHS 8232	8400136	Oct. 31, 1985	18
9227	8600009	May 31, 1988	18
9323	8600010	Apr. 29, 1988	18
McNair 1813	7500006	May 1, 1975	17
McNair 1003	7700084	Aug. 10, 1978	17
Coker 833	8800005(1)	Oct. 2, 1987(1)	-
Coker 9733	8700159(1)	July 16, 1987(1)	-
Coker 9766	8700160(1)	July 17, 1987(1)	-

(1) Application number and filing date.

Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "NORTHROP KING CO.", CHANGING ITS NAME FROM "NORTHROP KING CO." TO "NOVARTIS SEEDS, INC.", FILED IN THIS OFFICE ON THE THIRTIETH DAY OF DECEMBER, A.D. 1996, AT 9 O'CLOCK A.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.



Edward J. Freel

Edward J. Freel, Secretary of State

0829320 8100

960389892

AUTHENTICATION:

8267947

DATE:

12-31-96

CERTIFICATE OF AMENDMENT OF CERTIFICATE OF INCORPORATION
OF
NORTHROP KING CO.

It is certified that:

1. The name of the corporation (hereinafter called the "Corporation") is Northrup King Co.

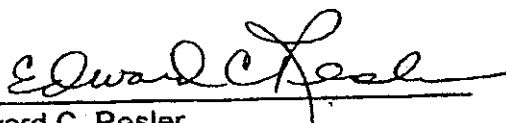
2. The Certificate of Incorporation of the Corporation is hereby amended by striking out Section 1 thereof and by substituting in lieu of said Section the following new Section.

1. The name of the Corporation is Novartis Seeds, Inc.

3. The amendment of the certificate of incorporation herein certified has been duly adopted and written consent has been given in accordance with the provisions of Sections 228 and 242 of the General Corporation Law of the State of Delaware.

4. The effective date of the amendment herein certified shall be January 1, 1997.

Signed on December 27, 1996.


Edward C. Resler
Vice President & Secretary